OCT 0 7 2005



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October 6, 2005

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Attn.: Group Art Unit 3738

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From:

Andrew V. Smith (Reg. No. 43,132) Client-Matter Number: 355004-991501

415.836.2500

Re:

U.S. Patent Application No. 09/811,360

Filing Date: March 16, 2001

First Named Inventor: Eugene M. Wolf

Art Unit: 3738

Examiner: Javier G. Blanco

Attorney Docket No.: 355004-991501

Pages: -\_\_\_\_(including this form)

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Attorney Docket No. 355004-991501

Appl. No. 09/811,360 Amendment dated October 6, 2005 Reply to Office Action mailed May 12, 2005

a stabilizing, non-intramedullary base extension including multiple fins for efficient rotational stabilization of the humeral head fixation on a cut humeral surface configured for coupling with the cut humeral surface;

preparing a humeral surface for coupling the <u>stemless</u> partial humeral head fixation thereto, including cutting the humeral surface to reveal a cancellous interior; and

coupling the <u>stemless partial</u> humeral head fixation to the humeral surface including cement or ingrowth fixation of the humeral head with the humeral surface, thereby recreating the anatomic proximal humeral configuration, wherein the base surface of the partial humeral head contacts or substantially mates with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are uniformly planar along their entire extents and directly intersect at a center of the base surface, said center having a diameter that is approximately equal to a thickness of each of said fins, such that each said multiple planar fin protrudes radially along a plane from the center of the base surface where it intersects with each of the other fins.

Claim 26 (Cancelled)

Claim 27 (Cancelled)

Claim 28 (Previously presented): The method of Claim 25, wherein the planar shape of the fins is triangular.

Claim 29 (Previously presented): The method of any of Claims 23-25, wherein said intersecting fins form a cruciform shape.

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Claim 30 (Previously presented): The method of Claim 25, wherein the protruding base extension further includes at least one linear extension.

Claim 31 (Previously presented): A total shoulder arthroplasty method for recreating an anatomic proximal humeral configuration, comprising the steps of:

preparing a stemless humeral head fixation having a humeral head including a base surface and a non stem-bearing, stabilizing, non-intramedullary base extension including multiple fins for rotational stabilization of the humeral head fixation on a cut humeral surface for coupling to the cut humeral surface;

preparing a humeral surface for coupling the humeral head fixation thereto, including cutting the humeral surface to reveal a cancellous interior, and

coupling the humeral head fixation to the humeral surface, thereby recreating the anatomic proximal humeral configuration, wherein the base surface of the partial humeral head contacts or substantially mates with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are formed to have a cruciform shape and are uniformly planar along their entire extents and directly intersect at a center of the base surface, said center having a diameter that is approximately equal to a thickness of each of said fins, such that each said multiple planar fin protrudes radially along a plane from the center of the base surface where it intersects with each of the other fins.

Claim 32 (Original): The method of Claim 31, wherein the base extension includes two or more linear extensions.

Claim 33 (Previously presented): The method of any of Claims 25 or 31, wherein the coupling step includes the step of impacting the base extension into Page 9 of 18

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the cancellous interior of the cut humeral surface, wherein the periphery of the humeral head fixation rests on the cortical margins of the humeral surface following the coupling.

Claim 34 (Previously presented): The method of any of Claims 25 or 31, wherein the coupling step includes the step of adhesively coupling the partial humeral head fixation to the humeral surface.

Claim 35 (Original): The method of Claim 34, wherein the adhesive is surgical cement.

Claim 36 (Previously presented): The method of any of Claims 25 or 31, wherein the coupling step includes the step of press-fitting the humeral head fixation to the humeral surface.

Claim 37 (Previously presented): The method of any of Claims 25 or 31, further comprising selecting a shape and size of the periphery of the base of the humeral head fixation from a variety of shapes and sizes for matching the specific shape and size of the anatomic neck of the cut humeral surface.

Claim 38 (Original): The method of any of Claims 25 or 31, further comprising the step of inserting a template punch into the cancellous of the cut humeral surface prior to performing the coupling step.

Claim 39 (Previously presented): The method of Claim 38, wherein the base extension is a total or partial male complement to a female template punch.

Claim 40 (Cancelled)

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